



# Metropolitan Water District of Southern California



- Regional water wholesaler to 6 counties covering 5,200 square miles
- Serves 19+ million people= 50% of the state's population with projected population growth ~170,000 people/year
- Regional economy \$800+ billion
- Supplies nearly half of regional retail demands
- Includes 26 member agencies

# Sources of Water for Southern California



# Metropolitan's Three-Tiered Climate Change Adaptation Strategy

## Implementation of Programs/Policies

Conservation, storage and recycling incentives

GHG mitigation and energy efficiency

Bay Delta Conservation Plan

Integrated Resource Plan (IRP)

## Knowledge Sharing/Research

Water utility collaboration (WUCA)

State and federal legislation

Federal, state and NGO collaboration on planning

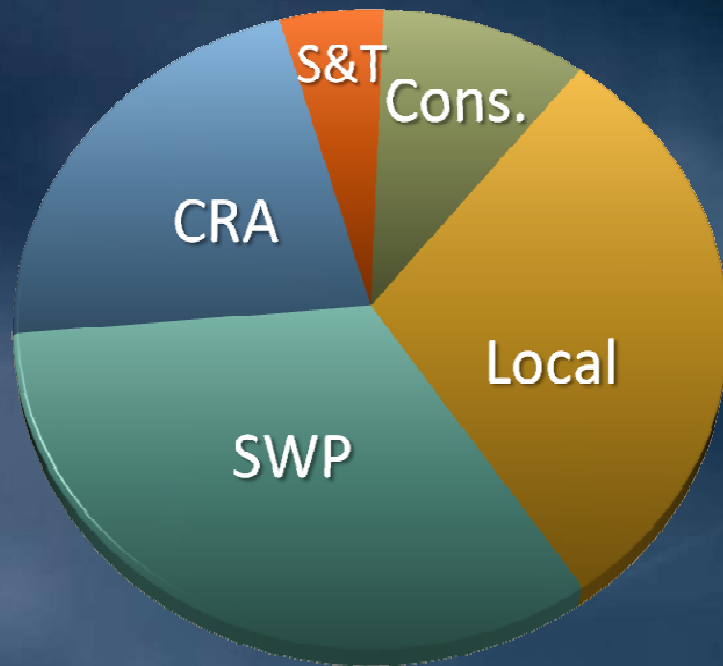
## Quantification of Current Research

Support flexible "no regret" solutions to water supply and quality decisions

Support reasonable, economically viable, technologically feasible management

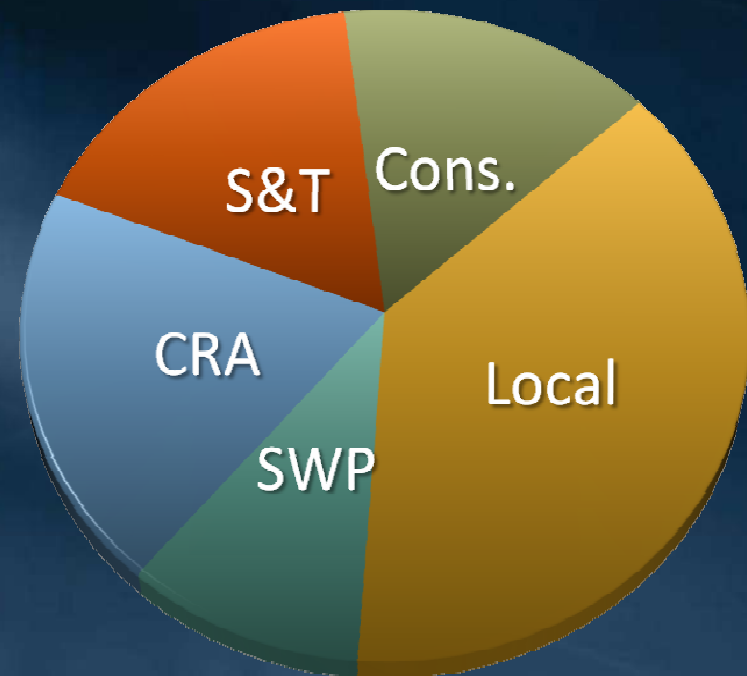
Internal planning analyses, studies

# Dry Year Supply Diversification in IRP Update



**Early 1990's**

*Heavy dependence on  
imported supply  
and SWP deliveries*



**Current Strategy**

*Emphasis on conservation,  
local supplies and  
storage & transfers*



# Water Utility Climate Alliance

Metropolitan Water District of  
Southern California

Denver  
Water

Central  
Arizona  
Project

NYC Dept. of Environmental Protection

Portland Water Bureau

San Diego County Water  
Authority

San Francisco Public  
Utilities Commission

Seattle Public  
Utilities

Southern Nevada  
Water Authority

Tampa Bay  
Water

## WUCA Goals:

- Improve research on impacts of climate change on water utilities
- Develop adaptation approaches for climate change
- Develop greenhouse gas reduction strategies

# WUCA Reports

## ● Climate Modeling

- Overview of Global Climate Models and downscaling
- Evaluation of model sufficiency
- Discuss challenges in implementation
- Explore future investments and collaboration

## ● Decision Support Planning Methods

- Identify and evaluate decision support methods to incorporate climate uncertainties into planning
- Aid in transition from stationary to uncertainty-based planning

# Planning for Uncertain Future through Adaptive Management

- Identify key vulnerabilities and risk
- Identify contingency actions
- Assess feasibility through “low-risk no-regret actions”
- Utilize decision support and research to assess triggers for implementation



Metropolitan Water District of So. California

Brandon Goshi

Resources and Planning Manager

